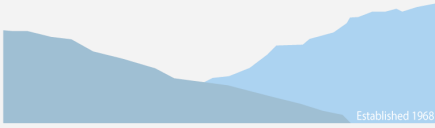


Cracklin' Static

January 2023 Edition



SIERRA NEVADA
Amateur Radio Society

**In-person and
virtual meeting
January 7,
8 AM. For de-
tails see pg 6...**

SNARS NET on DMR – Tuesdays 8pm
DMR Talk Group: 31328 SNARS

SNARS Treasury Closing Balances As of 12-31-22 from AE7OX

Account	
Operating	\$9,668
Savings	\$7,755
Self Insurance	\$16,530
PayPal	\$1,014
Convention	\$4,151

Total **\$39,119**

Membership Renewals not given

SNARS Membership as of 12-31-22

Extra	136	34%
Technician	128	32%
General	118	29%
Advanced	15	04%
No License	5	01%
Total	402	

SNARS ARRL Members as of 12-31-22

Regular	258	65%
Life	36	9%

PRESIDENT'S VOICE

SNARS PRESIDENT BARRY BETTMAN, K6ST

Happy New Year to all the SNARS members. 2023 is an exciting year for the club with lots of activities to participate in: SNARS Monthly Meetings, ARRL Kids Day, SNARS Noon Net, 7QP, SNARS Tech Net, Field Day, SNARS Ham Radio Night,



NVQP, POTA, and many other events. Also with the New Year is the opportunity for SNARS Volunteering. We will be sharing an overview of different committees at Saturday, January 7th SNARS business meeting and have a detailed discussion on Monday, January 16th SNARS ham radio night.

One point of interest, I noticed that we are approximately half-way up the solar cycle 25 progression:

<https://www.swpc.noaa.gov/products/solar-cycle-progression>

which means that the band conditions should continue to improve. What goals does each of you have for 2023 in ham radio? My personal one is to get out in the field and have fun operating ... hope to have many of you joining together.

As the new year rang in, mother nature decided to bring a big Sierra storm that knocked out the power to several of the SNARS Linked System repeaters and others too. As of New Year's Day, there is no estimated time for power restoration. Yet, you can get on many of the standalone repeaters shown on:

<http://snars.org> website, and click on Repeater to see a list of them as well as the Community Repeater Directory.

Best to you for a wonderful 2023. I look forward to talking with you on the air, via email, or SNARS telegram chat system.

73, Barry K6ST



PO BOX 7727 Reno NV 89510
Yearly Dues: \$40.00 Individual • \$50.00 Family
775.453.4142 <http://snars.org>

2023 Officers

President..... Barry Bettman, K6ST
Vice-President..... Brian Verhalen, KJ6EAC
Treasurer..... Doug Edmondo, W7DBE
Secretary..... Anthony Marcin, W7XM
Director John Byerly, N7ROJ
Director Jim Shepherd, W6US
Director Krystal Nelson, AJ6GC

2022 Staff

Cracklin Static Howie Holden, WB2AWQ
W7TA Trustee Peter DeBay, KE7VSR
KR7ENO Trustee..... Howie Holden, WB2AWQ
Control Operator Pat Sheehan, W7DED
Youth Involvement..... Barry Bettman K6ST
NVQSO Coordinator..... Jim Shepherd, W6US
Historian Jon Fox, KF7KTC
Tech Team Lead Pat Sheehan, W7DED
Membership Kim Farnham, KG7TMA
PIO Greg Krantz, NT7Q
VE Coordinator..... Krystal Nelson, AJ6GC
Meeting Greeter Bill Jones, AE7OX
Noon Net Manager Wes Vick, KG7QXE
DMR Net Manager Anthony Marcin, W7XM
Reno Ham Swap Wes Vick, KG7QXE
Webmaster Erik Andreasen, K6CZH
Club Sales Manager..... Vacant
Recording Secretary..... Doug Edmondo, W7DBE

Cracklin Static Publication

Editor: Howie Holden **WB2AWQ** - holden7471@msn.com
Cracklin' Static is the Newsletter of, and sponsored by the Sierra Nevada Amateur Radio Society. Cracklin' Static is published the week before meetings. Opinions expressed herein are those of the editors and contributors and should not be considered as official expressions of the Club Officers, Staff or Club Members, or as endorsements by same.

Material for publication may be edited to enhance readability or to save space. We reserve the right to use whatever font size, line spacing or other tools as may be required to publish this Newsletter. **Deadline for input to the newsletter is 1500 hours on the Sunday** prior to the 1st Saturday (or whichever Saturday is the meeting) of each month.

SNARS Wide Area Linked System

147.030 + PI 123.0	Sparks, Fernley, Fallon	Online
147.210 + PL 100.0	Reno, Sparks	Online
147.150 + PL 123.0	Lake Tahoe, Truckee, Carson	Online
146.925 -PL 123.0	Lovelock, Fallon	Online
146.670 -PL 123.0	Winnemucca	Not Linked
444.875 + PL 100.0	Yerington	Not Linked
444.125 + PL 123.0	Reno Sparks	Offline

DMR Systems

444.925 + CC 1	Reno, Sparks	Online
444.825 + CC 1	Dayton, Fallon, Carson	Online
443.925 + CC 1	Lake Tahoe, Truckee, Carson	Online
443.950 + CC 1	Incline Village	Online
442.875 + CC 1	Sparks, Fernley, Fallon	Online
442.850 + CC 1	Downtown Reno	Online
441.950 + CC 1	Fallon, Fernley	Online

Fusion Systems

146.610—DGID 28	Reno, Carson, Dayton	Online
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IRLP / EchoLink Systems

147.300 + PL 123.0	Reno, Sparks	Not Linked
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Packet / APRS

145.050 - RNO	Reno, Carson, Dayton	Online
145.050 - ROSE	Lake Tahoe, Truckee, Carson	Online
144.390 - TOULON	Lovelock, Fallon	Offline

Standalone Systems

147.390 + PL 100.0	Reno, Carson, Dayton	Online
443.075 + PL 123.0	Reno, Carson, Dayton	Online
927.0875 + PL 114.8	Reno, Carson, Dayton	Online

Online Offline Not Linked

Visit <https://snars.org/repeaters/analog> for additional updates/status on repeaters.

Weekday on the SNARS Linked System

147.030 + PL 123 – Sparks/Fernley
 147.150 + PL123.0 – Lake Tahoe / Truckee
 147.210 + PL 100.0 - Reno
 444.875 + PL 100.0 - Yerington
 146.925 - 123.0 – Lovelock / Fallon
 146.67 – PL 123.0 - Winnemucca

Monday through Friday @ 12:00pm

Open to all amateur radio operators. A general informational net for the amateur radio community of Northern Nevada and Eastern California. Radio Checks and Questions are welcomed.

Nets on the SNARS Linked Systems

147.210 + 100.0 | 147.030 + 123.0 | 147.150 + 123.0
 147.670 – 123.0 | 146.925 – 123.0 | 444.875 + 100.0

SNARS Noon Net	Mon—Fri @ 12:00pm
ERC Net for NV and Northern CA	Monday @ 9:15pm
N. Western NV ARES Net	Thursday @ 7:30pm
Northern Nevada Preppers Net	Wednesday @ 8:00PM
Hospital Net	Friday @ 10:00AM

Nets on Simplex/HF

Jefferson Noon Net	7.204 LSB	Daily - 12:00pm
6 Meter Net	50.350 USB	Tuesday – 8:00pm
2 Meter Weak Signal	144.250 USB	Wednesday - 8:00PM
2 Meter Simplex Net	146.500 FM	Thursday – 8:00PM
10 Meter Net	28.350 USB	Sunday – 2:00PM

Join us on SNARS Telegram Channel



Telegram

a new era of messaging

Visit <https://snars.org/telegram>

Our official channel for members to communicate with each other via chat, ask questions and get the latest information about the club, repeater status and amateur radio events.



SNARS Weekly DMR Net

Tuesdays 8:00PM

SNARS Talk Group 31328

Open to Members and Guests. A general information net each week on DMR.

SNARS CALENDAR

SNARS Board Meeting Wednesday, January 11, 6:00PM. Location and mode Chin Chin, Sparks, and Zoom

HAM RADIO NIGHT on Zoom 7:00 PM

Monday, January 16, 2022 see

<https://snars.org/hamradionight/>

Reno QRP Group Meeting Tuesday, January 17, 11am – 12pm, Jack's Coffee Shop #2, 605 N Wells Ave, Reno, NV. Contact Ed, WD7Y WD7Y@sbcglobal.net for more info. If cancellation is needed, will be announced on the SNARS noon net.

Next months SNARS Breakfast Meeting, February 4, 2022, 8 AM. Location and media mode tentative, depending on Board decision.

WELCOME NEW MEMBERS

As of 12-31-22

Anthony	Marchand	KK7JQS
Dan	Shaw	KK7JQO
Joseph	Collins	W6VIP
Massimo	Balestra	W7BMA
Lu	Sweeney	KK7HJZ
John	Robards	KK7JDR

Member Benefit: SNARS ONLINE HAM SWAP

<https://snars.org/hamswap>

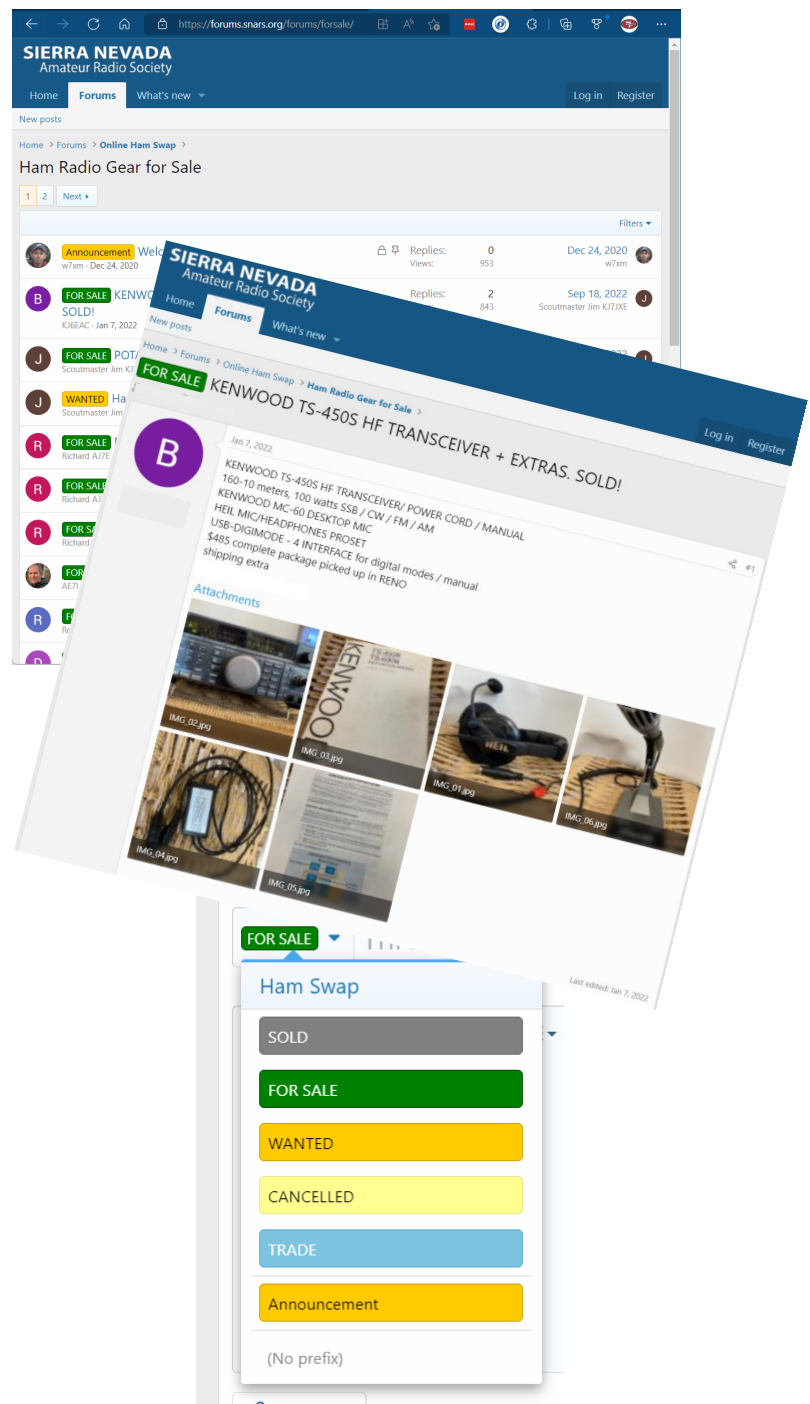
A SNARS members only benefit: We offer members a way to swap gear online and locally throughout the year. The online Ham Swap page provides members an option to list your gear, photos and descriptions for anyone to view.

You can find the swap page by either visiting <https://snars.org/hamswap> or locate the link at the top menu of the SNARS website labeled “Ham Swap”.

General Steps to posting a listing:

- 1.) Using your SNARS account (your_call@snars.org) click the Log in button at the top right. If you don't have a SNARS Account please request one to be set-up by sending an email to membership-team@snars.org.
- 2.) Click the “Post thread” button at top right.
- 3.) Select the post type “For Sale, Wanted, etc.” by clicking the down arrow button left of the title box.
- 4.) Type in a title for your items.
- 5.) Type in the message of any description of the items, condition of items and the best way to contact you. You may also post images of the items (recommended).
- 6.) Once you have completed the post click on “Post thread”.
- 7.) Your posting will now appear for all to view.

Note: you may visit the post anytime to update items and or change the status from for sale to sold by clicking the edit thread button under the three dots button and click edit thread, then click on the down arrow to choose the thread type to Sold or any other status.



If you have any questions about this member benefit please contact us at membershipteam@snars.org

SNARS In-Person and Virtual Monthly Meeting

**SNARS (hybrid in-person & virtual Zoom)
Monthly Meeting**

Saturday, January 7, 2023

In-Person 8 AM PDT (coffee and donuts)

SNARS Meeting at 9 AM both Zoom and in-person

In-Person @ Regional Public Safety Training Center (5190 Spectrum Blvd, Reno) - or - join us via Zoom

In Person location (no registration, just show up)

Regional Public Safety Training Center

5190 Spectrum Blvd, Reno

Room 103 & 105

**PRESENTATION:
Slot Antennas with
John Portune
W6NBC**



**MEETING
NOTICE!**

To join via Zoom, register here:

https://us06web.zoom.us/meeting/register/tZwof-yhqTojHNxa1_IGsXEsM6qaTiVPO6C

Questions? Contact Barry K6ST@arri.net

THE NAME OF THE GAME

Jim Shepherd, W6US nvjims@gmail.com

LOGBOOK OF THE WORLD AND VOTA

So you have had fun playing on the recent DX, VHF contests and the Sweepstakes, now what? If you haven't uploaded your logs to the Logbook of the World, you may be missing out on some earned awards! The current Volunteers On The Air event is solely being run on LOTW.

Logbook of the World (LOTW) is a free app that lets you easily send and receive confirmed electronic QSLs. With the increasing cost of postage and the elimination of the International Reply Coupons it is harder to get that confirmation from that rare DX or grid square. LOTW allows you to electronically upload your log and then matches the QSOs with the ones uploaded from other hams. Most of the DXpeditions and contest stations are uploading their logs after the end of the event, and as soon as you start uploading, their QSLs will start showing up in your account.

It is easy to sign up for this program. First of all, make sure your address is current with the FCC. LOTW uses your address from the FCC database to authenticate your application. Then go to: <https://lotw.arrrl.org/lotw-help/installation/> and download the TQSL application. Following the instructions, you will then need to request an initial certificate from the ARRL. They will send you a postcard to your FCC address that will have an 8 digit "postcard password" that you will enter in the TQSL program on the computer that you will be using for logging. You can set several computers up with this program, so be sure to follow the instructions and save that postcard! You will shortly get an email from the ARRL with your LOTW password and a certificate file. Run the TQSL application and follow the instructions to upload the certificate and you are almost ready to go. Be sure to put the date you received that callsign as your starting date for logging.

You will have to enter 'locations' for your radio operations. Your normal station location should be the first location, but if you decided to go down to Quartzsite, AZ for the winter, you would want to set up that location also. If you have a previous Callsign, you will want to get another certificate for the date range that you had that license—someone else may have that license now and you do not want to get their QSLs.

Once you get all this done, it is time to start entering your logs. All the electronic logging programs are designed to output an ADIF file. You can set the time period for that output and this will allow you to enter that file in the correct station location in TQSL. For instance, if you went to Quartzsite for the months of January and February, you would want to output that ADIF file for those two months. Then you can upload that file to the Quartzsite location in your TQSL application. You can then upload the files from March 1 until December 1 to another ADIF and send that to LOTW for your home location. You can also upload an ADIF from your contest logger at the same time you

are producing your Cabrillo file for submission to the contest sponsors.

A couple of hours after you upload the ADIF file, your QSOs should show up in LOTW. Also, all of the QSLs from other hams to you will be automatically added to your account showing confirmed contacts. It also automatically updates your DXCC, WAS, VUCC, and VOTA award totals as well as a couple of the CQ Magazine awards.

You may suddenly realize that you are only a couple of states away from getting that Worked All States award. The WPX award, which is for working different Callsign prefixes, is another award that sneaks up on you. Several club members have received their DXCC award using LOTW. They also break out all of the possible endorsements to the awards like CW, Digital and single bands.

You will probably want to upload your log at least monthly, and after any contests you may participate in. You can do a quick search to see what has been confirmed in the last month, and I was surprised this month to find a few new ones from back in 2012 and 2014 from hams who either were new to LOTW, or finally got around to uploading. It is kinda like getting an envelop from the Bureau...

The ARRL QSL Bureau handles incoming and outgoing QSL cards for DX stations. For ARRL members, they have a great bargain for sending out cards to foreign countries. \$2 for 10 or fewer cards in one envelope. \$3 for 11-20 cards in one envelope, or 75 cents per ounce, for packages with 21 or more cards., you can send cards to stations around the world and you don't need to even know their address. A pound and a half of cards would cost \$18.00 for approximately 225 cards—the cost for sending them yourself by mail would be \$258.75... For more details, see their website at:

<http://www.arrrl.org/outgoing-qsl-service>

If you are working some DX, you will also want to make sure you have registered with the incoming QSL Bureau. The Bureaus are set up by your number in your Callsign. For a 7 call sign, the bureau is: [Willamette Valley DX Club Inc](#), P.O.Box 1288, Battle Ground, OR, 98604-4687 and you can get more information from them about how to claim your cards. If you don't have a "7" callsign, find your bureau at <https://www.arrrl.org/incoming-qsl-service>

Whatever way you use for QSLs, these can help you. The LOTW seems to have reached the critical mass for participation. I am currently seeing over a 60% return on my QSOs, and even higher rates off of the current contests and using FT8.

Get out there and have fun logging some contacts! Especially if you are an ARRL member, uploading your log to LOTW will give your contacts points in the VOTA event.

2023 AMATEUR RADIO ACTIVITY CHALLENGE LIST

Anthony Luscre, K8ZT (k8zt73@gmail.com)

Submitted by Jim Shepherd, W6US

Happy New Year! As we begin a new year of Amateur Radio, I wanted to pass on a few suggestions to both new and seasoned hams across the state. Over my 40+ years of AR, I have always been overwhelmed by the wide variety of activities available to us as licensed amateurs. But I am often disappointed to see most hams get stuck in a rut of only doing one thing. New hams often feel limited by their license privileges to try new modes or bands. Even though there are limitations, Tech licensees have a wide variety of things they can try "beyond the local FM repeater." For more on this, look at my slideshow "**Technicians, Life Beyond Repeaters... & Activities Not Just for Technicians**" at tiny.cc/btech or watch the video recording at <https://youtu.be/-m8tOFBYl4E>.

Even more confounding to me are seasoned hams with General or Extra class licenses that don't exercise their license privileges and band allocations. Unlike Techs, there is no problem with license restrictions and, in most cases, definitely not for lack of equipment! Many of us have radios on which we have not used all the available bands and/or modes. Maybe the lack of an antenna for a specific band is holding you back. Don't let this stop you; a temporary or non-resonate antenna with a wide-range tuner may work fine, so give it a try. Maybe you are just not comfortable with HF yet; if so, look at the three-part series that Dennis, W6DQ, and I did recently, "**Beginner's Guide to HF**." The slideshow is tiny.cc/bghf, and the three videos at

<https://youtu.be/cjZZjfKYPak>, <https://youtu.be/dH5qsA1CZSc> and <https://youtu.be/eG3kFbCZEM8>. Or the UK version at <http://tiny.cc/bghf> with recordings at Denby Dale ARS-
www.youtube.com/channel/UCq9nFTkJJAJOdPZVtoPOcg/videos.

If you are interested in learning about Contesting, Logging, QSLing Online, etc. I have a list of dozens of slide presentations and recorded videos I have done at tiny.cc/k8zt-p (by the way, if your local club would like a meeting presentation, I would be happy to do one in person or via Zoom; just email me).

To help you try some new things in AR this year, I have put together a checklist for you to track your progress. You can use this for ideas to try. It works even better when you use it with a friend or group as a friendly competition. It would be a great club project your group could track over the year and maybe provide recognition of accomplishments with newsletter articles, certificates, or even prizes.

Some are very easy, some harder. Some may also have a profound effect on helping others in AR. If you are interested in learning CW in 2023 look at my "Having Fun with Morse"-
tiny.cc/fwm. Please feel free to add extra activities to my list (I'm sure I missed many ideas).

Band Worked

- ☐ - 2,200 M (135 kHz)
- ☐ - 630 M (472 kHz)
- ☐ - 160 M (1.8 MHz)
- ☐ - 80/75 M (3.5/3.8 MHz)
- ☐ - 60 M (5.3 MHz)
- ☐ - 40 M (7 MHz)
- ☐ - 30 M (10.1 MHz)
- ☐ - 20 M (14 MHz)

- ☐ - 17 M (18 MHz)
- ☐ - 15 M (21 MHz)

- ☐ - 12 M (24.9 MHz)

- ☐ - 10 M (28 MHz)

- ☐ - 6 M (50 MHz)

- ☐ - 2 M (144 MHz)

Mode Worked

- ☐ - SSB
- ☐ - CW
- ☐ - AM
- ☐ - FM
- ☐ - PSK (31, 63)
- ☐ - FT4
- ☐ - FT8
- ☐ - Other WSJT- X Modes (FSK441, T6M, JT65, etc.)
- ☐ - JS8call
- ☐ - Packet radio (AX25)/APRS
- ☐ - SSTV or Fast Scan ATV
- ☐ - Digital FM- DMR, D-Star, Fusion, etc.) including Hotspots
- ☐ - Digital FM- DMR, D-Star, Fusion, etc.) including Hotspots
- ☐ - Pactor, Clover, Olivia, Throb, DominoEX, MT63, Thor, AMTOR, etc.

Activity (or mode of op)

- ☐ - Repeater QSO (2 M and up)
- ☐ - Repeater QSO (10 or 6 M)
- ☐ - Simplex FM QSO (VHF/UHF)
- ☐ - SSB QSO (VHF/UHF)
- ☐ - CW Contact
- ☐ - Contest Contact
- ☐ - Satellite and/or EME Contact

- ☐ - Fox Hunt (ARDF)
- ☐ - WinLink Contact

- ☐ - EchoLink Contact

- ☐ - WAS (work all 50 states)

- ☐ - Work 50 countries

- ☐ - Work 100 countries

- ☐ - WAC- Work All Continents

Continued next page.....

☐ - 1.25 M (222 MHz)

☐ - 75 cm (440 MHz)

☐ - 33 cm (902 MHz)

☐ - Higher Microwave Bands

Build or Install

☐ - New VHF/UHF Antenna

☐ - New HF Antenna

☐ - New Mobile Radio

☐ - New Mobile Antenna

☐ - Computer/Radio Interface
Process Project or Program

☐ - Club building project

☐ - FAX or Hellschreiber

Club

☐ - Attend an ARC meeting

☐ - Present at ARC meeting

☐ - Head a committee

☐ - Attend a Hamfest

☐ - Teach a Licensing Class
or be a VE

☐ - Mentor a new ham

☐ - Write a newsletter article

☐ - ARRL Membership

☐ - POTA (Parks On The Air) or SOTA
(Summits On The Air) Chaser
Contact

☐ - POTA or SOTA Activation

☐ - POTA Activator

☐ - Work you State QSO party

Build/Test/Repair

☐ - Electronics Kit or Homebrew

☐ - Use an Antenna Analyzer or nano-
VNA to measure

☐ - Fix non-working Radio

☐ - Arduino, Rasp Pi or other micropro-

☐ - Arduino, Rasp Pi or other
microprocess Project or Program

Above submitted by Jim Shepherd W6US

VOLUNTEERS ON THE AIR (VOTA)

The ARRL is holding a year long event for everyone. Volunteers holding certain ARRL positions and in some cases, past holders of those positions have been assigned various point values up to 300 per contact. To get credit for these scores, it is best for you to log your contacts in the Logbook Of The World (LOTW), the free to use logging program maintained by the ARRL. There is no specified exchange, but you are only allowed to contact that person once per band on Voice, once on CW and once on Digital for point credits. Repeaters are not allowed. All the point assignments will be done in the LOTW database, and all ARRL members are worth at least 1 point. You don't need to exchange points or log them—just upload your entire log... There are lots of DX stations that are ARRL members, so work and log everyone. The Volunteers will be uploading their logs, so you will have credits even if you do not log.

Along with this, all states will have 2 weeks, at different times, to activate W1AW/#. Those stations will be worth 5 points and they can be worked on all the bands and modes on each of the weeks.



VOLUNTEERS
ON THE AIR 2023

There may be several stations on different frequencies and modes active during each week. Here in Nevada we are going to have the weeks starting April 19th and October 4th.

The event starts at 0000Z on January 1, 2023 and runs to 2359Z December 31, 2023. All you need to do is to turn in your logs on a regular basis during the year if you are a volunteer or an ARRL Member. If you are a VE or any other sort of volunteer for the ARRL, you have more than the 1

point assigned to just members. A listing of points is available at <http://www.arrl.org/volunteers-on-the-air> along with more information about this event.

Jim Shepherd, W6US

OPERATORS NEEDED FOR THE VOTA W1AW/7 OPERATIONS!

The dates are April 19th and October 3rd for our 2 weeks where those of us in Nevada will have the chance to be W1AW/7 and make LOTS of QSOs. The first one will be sometime this spring and the second week will be in the fall. We are looking for HF operators who are experienced contest/DX participants. They must be able to handle pileups, correctly log the contacts, and have a station that will provide a quality signal and the receive sensitivity to work the maximum number of contacts. You must have a LOTW account to upload your log. This is not a QRP or Repeater event. CW operators will need to be able to adjust their speed to that of the calling station. Ten meters and VHF operations must be simplex (NO repeaters or internet connections) and preferably on SSB, CW and digital keyboard to keyboard operations. This will take a bunch of hams to cover the airwaves during our weeks of operations. If you are interested, contact Jim Shepherd, W6US at nvjims@gmail.com The chance to get on the air with a famous 1x2 call and handle pileups only comes around rarely, so it is a good time to volunteer for this effort.

SHORT TAKES (By Jim Shepherd W6US)

CONTEST CALENDAR

The ARRL RTTY Roundup starts on January 7th. New this year, the WSJT and other digital modes are not allowed, only RTTY. January 21st is the ARRL January VHF contest and there is a good opportunity to get to a high spot and work 2m simplex on 146.50 and get enough contacts to get a First Place finish in Nevada. The following weekend is the Winter Field Day and you can join the Preppers out at Ft. Churchill, find your own spot, or work those stations and others from your warm shack at home. These and other contests information can be found at:

<https://www.contestcalendar.com/contestcal.html>

DX

The warmer Caribbean will have lots of activity this month with a lot of folks vacationing down there to avoid the snow and cold. The Congo and Cape Verde Island in Africa will also be on the air. At the end of the month, there is possibly going to be an activation of Bouvet Island. More information can be found at:

<https://www.ng3k.com/Misc/adxo.html>

THIRD MONDAY ZOOM HAM RADIO NIGHT

We will have our popular Ham Radio Nights via ZOOM to get your questions answered. It will be held at 7pm on Monday, January 16. More information, including the link will be published before that date.

NAME THAT RIG?

(Answer on page 10)



W7SSB's FUN STUFF

LEGENDS OF AMATEUR RADIO

I THOUGHT I MIGHT DO SOME ARTICLES ON A FEW LEGENDS OF OUR HOBBY !

W6KPC, Frank Clement is one of the pioneers many people have never heard of!

HF antenna pioneer A. J. F. (Frank) Clement, W6KPC, of Bakersfield, California, died September 23 as a result of an highway accident. He was 93 and an ARRL Life Member.

A former owner of Tri-Ex Tower, Frank designed and built a number of high performance HF arrays over the course of several decades. The June 1980 issue of *QST* featured his article describing the Collinear Yagi Sextet. As he described it: "The antenna systems at W6KPC and OH8OS are computer controlled. The computer is programmed to search through the eight modes to see which receives the incoming signal best." His other state of the art antenna projects appeared in the September 1951, May 1958 and November 1978 issues.

In 2006, The Radio Club of America (RCA) honored Clement with its 2006 Barry M. Goldwater Amateur Radio Award. The award recognized his accomplishments in designing and manufacturing towers and designing and constructing the Yagi Sextet, described as North America's largest Amateur Radio phased HF Yagi sextet.

Clement worked for Hughes Aircraft and was part of the engineering team that designed and built the Hughes Flying Boat (the HK-1 Hercules), better known as the Spruce Goose. He later worked in missile technology at Northrop; founded Diodes Incorporated, a silicon rectifier maker; built Golden Valley Radio, an early specialized mobile radio system, and acquired Tri-Ex Tower.

In expressing appreciation for the Goldwater Award, Clement noted that he knew the award's namesake -- five-term US Senator, 1964 Republican presidential candidate and ham radio advocate Barry Goldwater, K7UGA (SK) -- because Goldwater had bought a Skyneedle while Clement owned Tri-Ex.



Frank was known for building monster Yagi arrays for DXing. Pictured is the June 1980 cover of one of Frank's antenna array on 20 meters. It shows a stacked 4 - 6 element Yagi's from KLM on 20 meters. He also built a stacked 6 - 6 element array still using KLM antennas, that is 36 elements. When I had my qth in Palomino Valley (Paul Beltons now) I had 5 elements on 20 at 72' . A lot of times Frank would be working DX that I couldn't even hear .

P2

I used to run into Frank at the DX convention at Visalia every year. We would sit and talk. When he was selling off his station in later life

he called me and asked if I wanted to buy and take down the antenna farm . Way over my budget, hihi !



Frank's QTH 1969.



> JY9RL "AI"

DATE			TIME		BAND	MODE	REPORT
MONTH	DAY	YEAR	GMT	MHz	TWOWAY	RST	
5	30	86	05:35	14.267	SSB	5-8	

This is (1982) the largest & most powerful 20 meter rotary antenna in the world & is called THE COLLINEAR YAGI QUARTET. A 3rd. (lower) level of yagis will be added soon, making it a COLLINEAR YAGI SEXTET. The antenna is free-standing (no guys) and is 63 meters high, 30 meters wide & 20 meters deep. The present 24 element GAIN is approximately 17 db over a dipole. The future 36 elements will have a gain of 18.5 db/d. The take-off angle of radiation is about 15 degrees above the ground. The 1/2 power horizontal pattern is only 29°!

A.J.F. CLEMENT, W6KPC
KERN-COUNTY. Rt. 1, BOX 116, MCFARLAND, CA 93250

I think this will help some hams in learning the different modes they are hearing ?

<https://www.youtube.com/watch?v=bNZBuxibWMO>

73

Stay tuned!

Don W7SSB

YOUTH INVOLVEMENT

ARRL KIDS DAY

Sat Jan 7th 12PM - 3PM PST

Speak with Kids on the SNARS Linked System

<https://snars.org/repeaters/analog/>

<http://www.arrl.org/kids-day>



CQ Kids Day - let's get the kids on the airwaves and have them enjoy ham radio!

Kids Day is designed to give on-the-air experience to young people and hopefully foster interest in getting a license of their own. It is also intended to give older hams a chance to share their station and love for Amateur Radio with their children.



Kids helping kids is really fun!



Saturday, January 7, 2023, is **Kids Day**. Sponsored by the Boring (Oregon) Amateur Radio Club, Kids Day has a simple exchange suitable for younger operators: first name, age, location, and favorite color. After that, the contact can be as long or as short as each participant prefers.

Kids Day happens twice a year — in January and June — and can be your opportunity to get youngsters on the air and mentor future amateur radio operators to show them the fun and excitement that ham radio has to offer. You might just be introducing

the next generation of hams to the airwaves. Share the excitement with your kids or grandkids, a Scout troop, a church or the general public.

P4

On-the-air elmering is the key to having kids become life-long amateur radio operators

As with any on-the-air activity that includes unlicensed individuals, control operators must observe **third-party traffic restrictions** when making DX contacts. Additional **details** are on the ARRL website.

As many communities are taking precautions due to COVID-19, participants are reminded to adhere to social distancing and face mask guidelines where applicable. If it's not feasible to invite youngsters into your shack, consider other options to mentor, such as using social media platforms or via Zoom or other non-contact means.



ARRL KIDS DAY certificates are available to all that participate.

Barry K6ST k6st@arrrl.net

Nevada Section Youth Coordinator

ARRL (American Radio Relay League) www.arrrl.org

The national association for amateur radio

SNARS HAM RADIO NIGHT

3rd Monday of each month at 7PM PT on Zoom
Join together and Elmer each other for Ham Radio Night on
MONDAY, JANUARY 16, 2023, 7PM

The topic smaller breakout groups will be:

SNARS Volunteering **DIY**

DMR/Fusion **VHF/UHF Analog**

Each participant can move themselves around to different breakout topics in zoom conferencing to enjoy.

If you have any questions or would like to be of service as an Elmer, please contact K6ST Barry k6st@arrrl.net

Register below for our next Ham Radio Tech Night, SNARS (virtual on Zoom conferencing) Oct. 17, 2022, 7:00PM PST

<https://us06web.zoom.us/meeting/register/tZYsc-Copj4sHNXXxz0pJSIsU8OiylWeGLfd>



FUN STUFF FOR JANUARY

January has some good ARRL/NCJ contests, which are listed in BOLD. I Used a different source and format this month because the ARRL Contest Corral didn't want to copy correctly. When the format is corrected, I will go back to the original format.

ARRL RTTY Roundup 1800Z, Jan 7 to 2400Z, Jan 8
<http://contest-log-submission.arrl.org/>

ARRL Kids Day 1800Z-2359Z, Jan 7
<http://www.arrl.org/kids-day>

North American QSO Party, CW 1800Z, Jan 14 to 0559Z, Jan 15
<http://www.ncjweb.com/NAQP-Rules.pdf>

North American QSO Party, SSB 1800Z, Jan 21 to 0559Z, Jan 22
<http://www.ncjweb.com/NAQP-Rules.pdf>

ARRL January VHF Contest 1900Z, Jan 21 to 0359Z, Jan 23
<http://www.arrl.org/january-vhf>

AWA Linc Cundall Memorial CW Contest 2300Z, Jan 25 to 2300Z, Jan 26 and 2300Z, Jan 28 to 2300Z, Jan 29
<https://antiquewireless.org/homepage/lc-cw-contest-details/>

CQ 160-Meter Contest, CW 2200Z, Jan 27 to 2200Z, Jan 29
<http://www.cq160.com/rules.htm>

Winter Field Day 1900Z, Jan 28 to 1900Z, Jan 29
<https://www.winterfeldday.com/>

For a complete list of contests, visit:
<http://www.arrl.org/files/file/Contest%20Corral/2023/January%202023%20Corral.pdf>

If you're not into contests, there's always DX to chase! While January doesn't have a whole lot of DXpeditions, there's still some good stuff for the month.

Dec 29 to Jan 05	Norfolk I	VK9MTO
Dec 29 to Mar 15	Gabon	TR8CR
Jan 03 to Jan 21	Cape Verde Is	D44TWO
Jan 06 to Jan 21	Congo	TN8K
Jan 12 to Jan 24	Banaba I	T33
Jan 13 to Jan 20	Palau	T8
Jan 23 to Feb 28	Bouvet I	3Y0J
Jan 27 to Jan 29	Jersey	MJ5E

Check <https://www.ng3k.com/Misc/adxo.html> for updates on DXpeditions to make sure they're still a go and see other listings.

RENO QRP SLOW SPEED CW NET

NEXT NET SESSIONS (three of them) WILL BE January 12 and 26, at 11 AM Pacific. (NOTE TIME CHANGE). Check with WD7Y@sbcglobal.net to confirm times. Target frequency 7.045 MHz, if busy search somewhere near that frequency.

THE FOLLOWING SHOULD ALWAYS BE IN YOUR REPORT:
NAME ,RST, LOCATION, RIG, POWER, ANTENNA.
REMEMBER TO INCLUDE RST IN YOUR REPORT

Feel free to add something else in your exchange.

Take some time to report RST for other OP's or anything else that comes to mind.

Sharing information about you and your equipment will accomplish two things.

First It gives you and everybody else practice sending and copying.

Second It is nice to spend time on the air with your friends. Consider this a QRP meeting on the air.

Relax and have some airtime fun with your friends.
73/72 Ed/WD7Y

NAME THAT RIG (from page 8)

The **AN/ARC-5 Command Radio Set** is a series of radio receivers, transmitters, and accessories carried aboard U.S. Navy (*and maybe some US Army Air Force*) aircraft during World War II and for some years afterward. (That sentence was borrowed from Wikipedia.) The particular set pictured on page 7 is the **BC-459-A**, a transmitter which tunes from 7 to 9.1 Mhz. The **BC-459-A** and all HF Command transmitters) contains a 1626 oscillator, a 1629 seeing-eye tube (for tuning), and a pair of 1625 power output tubes. The circuitry is quite simple and ultra reliable. The power output is about 40-45 watts, and the tubes are run very conservatively. The stability isn't the greatest, and there's some chirp on transmit, but once the set is warmed up well, the long term stability is OK. The **Command Sets** were for years a favorite of Novice operators, as they were easy to convert to crystal control, and the power input was about right for Novice use. Also there were tons of transmitters, receivers, and accessories available after WW2 so prices were cheap. Even today there are a lot of Command Sets and accessories available. *Note that **Command Sets** are **NOT** called "ARC-5". Sorry, but there is no ARC-5 set. There are **AN/ARC-5**, **SCR274N**, **BC-4xx series**, and **ATA/ARA** and some other earlier models, but no ARC-5.* All HF receivers, plus all HF transmitters share essentially the same circuitry, and same for the VHF stuff, but they are not all compatible with various mounting configurations although to the untrained eye they all look the same. In practical use, the **Command Sets** were preset to given frequencies, and pilots or radio operators often had little access to change frequencies because the radios themselves were sometimes buried in the bowels of the aircraft. They're fun to use, easy to tune, always elicit comments on their unique signal quality, and yours truly has two of the transmitters and one receiver. I use them often.



Command receivers. Left is a 190-550Khz model. It could be tuned locally. Right is a VHF model. It was designed to be pilot-selected channels.

ARES NEWS

EVENTS CALENDAR 2023

Silver State 50/50 race	5/20/23		Silver State Striders	Steve KS6A	ks6a@sbcglobal.net
Stetina Paydirt	5/20/23		John Prouty; Bike Monkey	Bob Miller WA6MTY	wa6mty@gbis.com
Lost and Found Gravel Grinder SBTS	6/3/23			Larry Trotter KI6YUK	dltrotter@sbcglobal.net
America's Most Beautiful Bike Ride	6/4/23		Tahoe Amateur Radio Assn	Paul Gulbro, WA6EWV	wa6ewv@juno.com
Pony Express Re-Ride	6/7/2023	6/17/23	SIERA	Gerry Miller KJ7GEZ	hamspud35@gmail.com
Truckee Tahoe Gravel Race	6/10/23		John Prouty; Bike Monkey	Bob Miller WA6MTY	wa6mty@gbis.com
Trailblazer Challenge (First event)	6/10/23		Make-A-Wish Foundation	Arlan Robinson KA7ZAU	ka7zau@yahoo.com
Trailblazer Challenge (Second event)	6/24/23		Make-A-Wish Foundation	Arlan Robinson KA7ZAU	ka7zau@yahoo.com
Indian Valley Century Bicycle Ride	TBD			Larry Trotter KI6YUK	dltrotter@sbcglobal.net
Tahoe Rim Trail	7/15/23	7/16/23	Tahoe Mountain Milers	Bob Miller WA6MTY	wa6mty@gbis.com
Death Ride	7/15/23		Tahoe Amateur Radio Assn	Paul Gulbro, WA6EWV	wa6ewv@juno.com
Alta Alpina Challenge	TBD		Alta Alpina Cycling Club	Jennie Hamiter, KE7YBA	jenniehamiter@mac.com
Vegas to Reno Off Road Race	8/16/23	8/20/23	Best in the Desert Racing Assn	Keith KC7HTK	kc7htkeith@hotmail.com
Tour De Tahoe	9/10/2023 ???		Tahoe Amateur Radio Assn	Paul Gulbro, WA6EWV	wa6ewv@juno.com
Reno Air-Races	9/10/23	9/17/23	WC-ARES	Bob Miller WA6MTY	wa6mty@gbis.com
Nevada Day Parade	10/28/23		NV AREA NW DEC	Tom Tobacco KE7NCJ	smokey5880@gmail.com
Scheels Turkey Trot	11/23/23		WC-ARES	Bob Miller WA6MTY	wa6mty@gbis.com

January 7 at the Regional EOC, John KL7RI will do an advanced workshop on Winlink Express, Radio Email program.

John will be covering an advanced hi speed version of Winlink called VARA FM and VARA HF.

We will start the ARES Training at 1030 and the workshop will start around 11. Everyone is invited.

Bob Miller WA6MTY

Emergency Coordinator for Washoe County

Amateur Radio Emergency Service

CERT Volunteer

775 843-5952

www.wcares.us

SNARS STATION ACTIVITIES

OFFICIAL POTA (PARKS ON THE AIR) EVENT

New Year's Week, the First full week of the new year in 2023

Events start at 0000 UTC and end 2359 UTC on the days listed:

New Year's Week, the First full week of the new year

<https://pota.app/#/events>

Casual contacts to help ring in the new year!

Let's get together for:



Radio in the Park

Post your POTA plans on the SNARS telegram channel:

<https://snars.org/telegram> or email K6ST Barry
k6st@arrrl.net



* * * * *

WB2AWQ OPERATES ARRL STRAIGHT KEY NIGHT 2023

In my usual fashion, I operated Straight Key Night using some variety of keys-in this case only two semi-automatic keys, or “bugs” as they are known-which are allowed in SKN, and some vintage equipment.

Now I operate vintage equipment almost all the time, so that wasn't unusual for me. This year I operated a Swan 350 CW/SSB transceiver from 1964, and a World-War-Two Navy aircraft transmitter, a model GO-9 from 1940, along with two receivers: a 1938 National HRO for 40 meters, and a Hallicrafters SX-101A from 1961 for 20 meters. The Swan did only 40M, no reason, while the GO-9 did both 40 and 20 meters.

I made only 8 SKN QSOs, but SKN isn't a contest, rather, it's an operating event. SKN has been around for decades, and is one of the more popular operating events. It runs from 0000Z January 1 to 2359Z January 1. The CW portions of the more popular bands are a bit busy for SKN, and many operators show off not only their straight keys and bugs, but also vintage equipment. For keys I used a 1937 McElroy bug, and a 1968 Vibroplex Original Standard bug.

Of the stations who sent key model numbers, I worked a Radio Shack key, a WW2 J-38, a homebrew straight key, a Vibroplex Lightning bug, and a Vibroplex Presentation bug. Two operators also had vintage equipment: an Icom IC-751A from the 1970s, and a Drake “Twins” T4X and R4 transmitter and receiver hooked up as a transceiver, also from the 70s.



Swan 350

Hallicrafters SX-101A
and Vibroplex Original
Standard bug



GO-9 transmitter
behind me, HRO
receiver lower
center, McElroy
bug on bench

If you'd like your station operations pictured here, QSL card, etc., send to me, WB2AWQ WB2AWQ@arrrl.net



Board of Directors Meeting Minutes

November 9, 2022 - 6:00PM

At Chin Chin plus Zoom

1. Call to order and roll call at 6:00 PM

Board of Directors:

Anthony Marcin, W7XM	P	Barry Bettman, K6ST	P	John Miller, N7JDM	P
Doug Edmondo, W7DBE	P	John Byerly, N7ROJ	P	Wes Vick, KG7QXE	P
Jim Shepherd, W6US	P				

Guest(s) In attendance: Bill Jones, AE7OX, Official Book Keeper.: P

2. Approval of Minutes - Discussion/Action

The October minutes were approved

3. Approval of Agenda - Discussion/Action

The November Agenda was approved

4. Reports

A. President's Report – Received replies on new tech team members, 2nd to the last board meeting!

B. Secretary Report – 422 Members, noted the new board members whose term will start in January: John Byerly, Krystal Rhoads, and Brian Verhalen. Discussed having the business meeting to elect new corporate officers follow the normal meeting in December.

C. Treasurer – October 2022 End of Month, Operating: \$10,176, Savings: \$7,485, Self Insurance: \$15,990, Paypal: \$876, Convention: \$4,212. Net Monthly: -\$5,392 net YTD: -\$3,108. Membership Renewals 14, Donations year to date \$4,891 (Amazon \$149, Members \$4,671, Paypal \$71,)

Notes: a) Transferred \$1,200 from Paypal to operating, \$120 to Savings, and \$240 to self insurance.
b) Discussed some Treasurer duties with Doug

D. Technical Team – Pat / John

Repeater Upgrade – The two dropped repeaters are okay. Currently making harnesses and once done will install them as soon as possible. Couple of more people are interested in helping the Tech Team. Jim S. suggested that we get two more repeaters on order.

E. Control Operators / Trustee

Report - None

F. Events

NVQSO Update Working on 164 logs following the cut off. Down a bit from last year, 25 in state v 33 last year. Jim is currently working on out of state logs, NV pretty well figured out. Jim noted only one log from Las Vegas (CW), and three stations who did not turn in logs. The board voted and approved paying for the award plaques.

G. Education & Youth Activities

Events last month (JOTA and POTA) were really good. The Scout's STEM event was canceled.

H. Noon Net - Noon Net Manager

Put out the work for tech team members, otherwise net is cruising along.

5. Old Business

A. In Person Meetings – On Hold

B. Club Swag – On Hold

C. Out door Club event – Spring 2023 (May or June or run with swap meet?)

D. Spring Swap Meet, tentative date May 13th

6. New Business

A. Holiday Party – Barry looked at multiple locations including the church that hosted JOTA, Taps and Tanks and possibly Great Basin. Barry is still researching dates etc.

B. Committees – Tony is working on a call for volunteers for committees and activity help.

7. Board member and Public Comments

Tony – Nothing

Doug – Treasury take over, will be working with Bill

Jim – Finishing NVQSO, will get in line January 1st to get the Washoe Group Camping reservation for field day.

John B. – nothing

Wes – Discussed potential for an alternate swap meet location / Ham Fest location.

John Miller – Nothing.

8. Adjournment - Action

A. Next Meeting: December 14th, 2022. Location Chin Chin plus Zoom

B. Adjourned at 1900.



Organizational Meeting Minutes

December 14, 2022 - 6:55PM

At Chin Chin plus Zoom

1. Call to order and roll call at 6:00 PM

Board of Directors:

Anthony Marcin, W7XM	P	Barry Bettman, K6ST	P	Krystal Nelson, AJ6GC	P
Doug Edmondo, W7DBE	P	John Byerly, N7ROJ	P	Brian Verhalen, KJ6EAC	P
Jim Shepherd, W6US	P				

Guest(s) In attendance:

2. Call for Nomination and Vote for President – Per Bylaws Article 6, Section 3, Subsection b.

John Byerly nominated Barry Bettman for President of the board, there were no other nominations. Barry was elected unanimously by the board.

3. Appointment of Officers – Per Bylaws, Article 6, Section 3, Subsection c.

Barry appointed and the board voted to install the following members as executive officers:

Vice President: Brian Verhalen, KJ6EAC
Secretary – Tony Marcin, W7XM
Treasurer – Doug Edmondo, W7DBE

4. Public Comments

There were no public comments.

5. Adjournment - Action

The meeting was Adjourned at 19:15



Board of Directors Meeting Minutes

December 14, 2022 - 6:00PM

At Chin Chin plus Zoom

1. Call to order and roll call at 6:00 PM

Board of Directors:

Anthony Marcin, W7XM	P	Barry Bettman, K6ST	P	John Miller, N7JDM	P
Doug Edmondo, W7DBE	P	John Byerly, N7ROJ	P	Wes Vick, KG7QXE	P
Jim Shepherd, W6US	P				

Guest(s) In attendance: Bill Jones, AE7OX, Official Book Keeper.: P, Brian Verhalen, KJ6EAC, Krystal Nelson, AJ6GC, Bob Nelson.

2. Approval of Minutes - Discussion/Action

The November minutes were approved

3. Approval of Agenda - Discussion/Action

The December Agenda was approved

4. Reports

A. President's Report – Last meeting as president, very happy to have had the chance to serve.

B. Secretary Report – 416 renewed so far, 4 new members.

C. Treasurer – November 2022 End of Month, Operating: \$10,051, Savings: \$7,484, Self Insurance: \$15,990, Paypal: \$1,380, Convention: \$4,151. Net Monthly: \$318 net YTD: -\$8,182. Membership Renewals 13, Donations year to date \$4,991 (Amazon \$186, Members \$4,734, Paypal \$71,)

Notes: a) Transferred \$1,300 from Paypal to operating, \$270 to Savings, and \$540 to self insurance.
b) Pat has bills for Peavine, Davidsons and Toulon peak. Noted that Peavine was \$139.02.

D. Technical Team – Pat / John

There is a no PL carrier causing interference on the Mt. Rose machine (147.150). Pat and John are investigating the source.

surrounding the Rose packet node antenna. Working to move the packet antenna as the radiation pattern has changed. Noted that a non-club member raised the issue.

E. Control Operators / Trustee

Report - None

F. Events

1. NVQSO results have been posted. Jim has ordered the blank plaques.
2. Jim also has marked his calendar to get our reservation in for Field Day with Washoe Lake State Park.

G. Education & Youth Activities

Kids day on January 7th. Barry noted will be entirely on the radio. He is also working to expand youth activities.

H. Noon Net - Noon Net Manager

Wes noted it has been a pleasure to be on the board and will remain as noon net manger

5. Old Business

- A. In Person Meetings – Now new news. Wes commented that he has received feedback that quarterly in person meetings would be a good way to go.
- B. Club Swag – No updates, Tony is hoping to have some help.
- C. Out door Club event – Barry will start looking for location(s)
- D. Spring Swap Meet, tentative date May 13th, checking with Cabella's
- E. Committees – Tony is still working on soliciting volunteers!

6. New Business

- A. The board recognized John Miller and Wes Vick who will be leaving the board at the end of the year.
- B. The board welcomed Brian Verhalen and Krystal Nelson who are the new board members joining the board in January.
- C. Discussed SNARS serving as the W1AW/7 Coordinator for the Nevada Section for the VOTA (Volunteers on the air) events in May and Oct. Jim Shepherd, W6US volunteered. Jim noted 7QP is in May.

7. Board member and Public Comments

John M. - Nothing	Brian V – Looking forward to seeing where we go.
Doug – Thank you Wes and John M.	Bill J. - Thank You
John B. - Thank you to Wes and John M.	Krystal N. – would like to see recognition for volunteers
Jim S. - Thank you to Wes and John M.	Bob N. - Thank You
Tony – Thanks to all.	
Barry – Great year, noted he will have been a HAM for 50 years in Jan.	
Wes – Thank You.	

8. Adjournment - Action

- A. Next Meeting: January 11th, 2023. Location Chin Chin plus Zoom
- B. Adjourned at 18:50